

THE TECH

VOL. XXVIII. No. 23

BOSTON, MASS., FRIDAY, NOVEMBER 20, 1908

PRICE THREE CENTS

CROSS COUNTRY RACE TOMORROW

**Technology's Prospects for
Victory Better Than
Ever Before**

GREAT ENTHUSIASM

**Two Hundred Students Cheer
Team as it Leaves for
Princeton**

With a rousing sendoff by more than 200, the cross-country team left the Back Bay station at 6:04 o'clock last evening on its journey to the intercollegiate run at Princeton. Led by Carl W. Gram 1909, president of the Athletic Association, the crowd cheered from 5:30 o'clock until the train passed out of the station.

The team, each individual member, and Capt. Ellis and Coach Kanaly were cheered again and again. "Dear old M. I. T.," "The Cardinal and The Gray" were sung and resung, and all joined in the singing of the "Stein Song" with bared heads.

The seven men taken were Capt. R. Ellis 1909, H. H. Howland 1909, J. F. McCarthy 1909, C. P. Eldred 1911, L. O. Mills 1910, J. N. Stephenson 1909, and E. Jacobs 1910. Manager K. D. Fernstrom 1910, and Coach Frank Kanaly accompanied the team.

Just before the train pulled out, Coach Kanaly said, "The fellows have been doing remarkably good work this season and the times made in the trials and practice runs would indicate that Tech has the fastest team this year it has ever had. Had this team been running at Princeton last year I feel sure we would have secured at least third place."

The men have already run two hard races as a team and have been training together since the middle of October. This has made a wonderful difference in the "esprit de corps" of the team. All are in the best of physical condition and though they have the proper amount of confidence in their ability as a result of the recent races they are not swell-headed about it. Coach Kanaly has given the men a great deal of careful attention and they have followed his instructions to the letter. Ridsdale Ellis has proved himself an ideal captain, putting whole-souled interest and energy into the work. He has inspired the men with an enthusiasm not often shown by Tech men. Besides this there is a certain determination on the part of every man to run till he drops and the chances are that the majority of the team will finish in better position than the first Tech man to cross the line last year. Putting Howland, who has more than a fighting chance for first place, in a class by himself, the rest of the team is remarkably well balanced and should finish at least with not more than fifteen men between the first and last of them.

Four of the team, Ellis, Howland, McCarthy and Stephenson, have already

(Continued on page 3.)

CAPT. GRAM PRESIDENT

At the meeting of the M. I. T. A. A., Thursday afternoon Carl Gram 1909, was unanimously elected president of the association. K. D. Fernstrom 1910, was elected vice-president. P. D. White 1911, was elected secretary-treasurer. For the undergraduate representatives on the Advisory Council the following were elected: H. E. Whitaker 1909, R. Ellis 1909, and J. Avery 1910.

It was decided that there should be no eligibility rules barring men from competing on Tech teams who have formerly been on other college teams.

The A. A. then discussed athletic fees and also varsity baseball. Kelly was appointed to take charge of the latter question temporarily and to receive names of persons interested in varsity baseball.

SHOW DINNER IS TOMORROW NIGHT

**Francis-Joslin-Prof. Jackson
H. S. Webster and others
to be Present**

GOOD LIST OF STUNTS

**Songs and Dances by Stars of a
Number of Past
Shows**

Preparations are now nearly completed for the big Tech Show dinner tomorrow night. Coach Francis is coming on from New York to speak, and the dinner promises in every way to be another big success. Although the Show Dinner has the reputation of being the best, and of drawing the largest crowd of any similar affair, the management expects to excel all previous efforts. This will be made possible by the facilities of the new Union.

An especially attractive list of stunts has been picked for tomorrow night. Among these are included Tetaurovigno's song Tesora Mio, from last year's show. Belden and Count, as Helen Sealythe and Capt. Shakewell, will give their song and dance. Jacobs as Marjorie Starling, and Hield as Fred Wilmerdede, will sing "Pouring Tea," from "Over the Garden Wall," and Hield will render the title song of the piece. "The Freshman" will be represented by Schofield, who will do some of his old stunts.

It is hoped that Rinker Kibbey will be able to attend, as he has made a hit in former shows.

Besides Francis, Professor Jackson and E. Webster, president-elect of the Alumni Association, are to be present. Joslin will explain the object of the show, for the benefit of new students, and will speak of the rules governing the poster and management competitions. For the first time, the envelope containing the name of the successful author will be opened, and his name and the name of the show will be made public.

The poster competition will begin immediately after the Show is announced. Francis will meet all the men who intend to do any work on the lyrics at the Show office, Saturday afternoon.

Everyone who enjoys music and a good time should be at the Dinner tomorrow night. From 6:30 until the last song, there will be something doing every minute. The freshmen especially should go and get in touch with the biggest social activity in the Institute, The Tech Show. In order that the management may know how many plates to order, they desire all who are going to get tickets as soon as possible.

GLEE CLUB CONCERT

More than fifty men made the trip with the musical clubs to Newtonville, Mass., last night, on the occasion of the first concert given this year. The concert was a grand success, several features introduced by the Glee Club, meeting with the special approval of the audience.

NEW APPLICATION OF VIOLET RAYS

**Induction Coil With Thirty
Inch Spark Furnishes
Light for Process**

SKIN DISEASES CURED

**Dr. Kalmus Effects Remarkable
Cure on Patient whose Disease
Baffles the Profession**

Attention has recently been called to the chemical effects of ultraviolet light by a rather remarkable cure which has been effected by Dr. Kalmus of the Physics Department of this Institute. The patient treated was suffering from a large, open maturing sore on the shoulder, the diagnoses of which was disagreed upon by the physicians in attendance. However, they decided that it was of the nature and the form of lupus. The sore was unaffected by the ordinary forms of treatment available in this vicinity, including the X-rays and surgery, and the sore was gradually increasing in size. Dr. Kalmus brought about a complete cure, however, by the prolonged action of the ultraviolet light falling on the diseased part of the shoulder. Another case is at present being treated which was brought from one of the Boston hospitals where it was pronounced incurable, but the improvement under the ultraviolet treatment is going on rapidly.

The source of light used is the spark of a large induction coil capable of giving a thirty-inch spark. The electrical circuit is so arranged that the energy is condensed into a spark only a half inch long, and also in such a manner that only a very little heat and consequently a very large amount of light is given off.

In Copenhagen, lupus is being cured by the "Finsen Ray," which is ultraviolet light from an arc, quite different from the spark described above. This form of treatment has not come into general use in this country, although there are many cases which would doubtless yield to it and for which very little has been done by other known means.

These results have led to extending the effects of the ultraviolet rays on chemical reactions, in which Dr. Kalmus is being assisted by Dr. Sidis and Dr. Nelson of this city. The work now in progress consists in determining the effect which occurs on varying the metals between the spark produced, on varying the constants of the electrical circuit, and in determining the wave length of the light which causes these effects and the chemistry of the changes brought about.

E. H. S. TO REORGANIZE

Yesterday noon 40 English High School graduates gathered and selected a committee to reorganize the old E. H. S. Club, which disbanded three years ago.

This committee consists of Trenthardt 1909, Jones 1910, Van Syckle 1911, and H. D. Kemp 1912. Another meeting is to be held Tuesday noon in Rogers building.

"BANANA LAND" SUBJECT TONIGHT

**Illustrated Talk on Jamaica
to be Given at Union
Entertainment**

GIVEN BY G. E. PUTMAN

**Improvement in Singing Made in
Past Week to be Feature
of Gathering**

At the "Union night" entertainment this week, George E. B. Putnam, editor of the Boot and Shoe Recorder, will speak on "What I Saw in Banana-land." The subject concerns the island of Jamaica, and Mr. Putnam is eminently well fitted to lecture on it.

He has made two trips to the island and with camera and note book has spent many months getting interesting and unique pictures and stories of this beautiful land of summer.

His second trip was made immediately after the Kingston earthquake, and one of the most interesting parts of Mr. Putnam's picture display will be that which includes views showing that city, first in all its beauty and life, and then lying in ruins after the shock.

The whole talk is full of humor, with here and there a touch of pathos, for Mr. Putnam has looked at his people, not with the cut and dried ideals of the lecturer, but with the larger and enthusiastic eye of the genial American business man on a holiday in new lands.

During the past week, organized singing has been going on daily at the Union, in the lunch hour, and already a marked improvement has been noticed in the singing. It is hoped that many of the men who have been practicing thus will be at the entertainment tonight to help out in the singing, both before and after Mr. Putnam's talk.

As usual, there will be light refreshments served afterwards for a small sum to those who desire them, but there will be no entrance charge to the entertainment, which is open to the whole Institute, and which it is hoped will be largely attended so that "Union Night" may be put at once on a permanent and successful basis.

BOXES FOR GRINDS

Grind boxes for Technique have been placed in Rogers corridor, directly beneath Technique board, in Eng. A corridor and in the Union, near the cigar counter.

A prize of five dollars will be awarded to the one who hands in the best collection of grinds. The idea of the boxes is to create the habit of writing and dropping good jokes in the boxes immediately after they have occurred.

CATHOLIC CLUB

Joseph O'Neil, president of the Federal Trust Company, spoke of the arduous character and excellent opportunities for public office holding at the Catholic Club meeting, Tuesday.

Raycroft Walsh 1912, was elected the freshman representative on the executive committee of the club.

CALENDAR

FRIDAY, NOV. 20.

4:00 P. M.—Lyric Competition, Room B, Union.
4:15 P. M.—Mandolin Club rehearsals.
6:30 P. M.—Bible Class at the Union.

SATURDAY, NOV. 21.

2:00 P. M.—Mechanical Engineering Society leaves for the Charlestown Navy Yard.
7:00 P. M.—Tech Show dinner at Union.

SUNDAY, NOV. 22.

6:30 P. M.—Y. M. C. A. at the Union.

BULLETINS FROM PRINCETON

The Tech has made complete arrangements to have the results of the intercollegiate cross-country race at Princeton tomorrow telephoned here directly after the finish and these will be announced in the social room of the Union as soon as received. As much difficulty might be encountered in getting open wire at such a busy time arrangements have been pushed in advance and The Tech is assured by the telephone company that the news will be received without delay. The race is scheduled to start at 3 P. M., so that, barring accidents, the bulletins will be read at the Union at 4:45 P. M.

THE TECH

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Friday, November 20, 1908.

HEALTH BOARD'S WORK

Those who attended the dinner of the Biological Society at the Petit Cafe, Trinity Place, Wednesday evening enjoyed an address by Burt Richards, head of the bacteriological laboratory of the Boston board of health. Mr. Richards has just resigned his position for a more lucrative one as director of the laboratories of the state board of health of Ohio, so that there will be little opportunity of hearing him in the future.

Mr. Richards spoke particularly of the work done in the Boston board of health laboratory, of the opportunities for Tech men in the city health work and of the general requisites for success. He said that three different branches of work were being conducted by the Boston board of health, the diagnosis of human and animal diseases, the study of special problems and pure research. For the diagnosis of human diseases, particularly diphtheria, the board has organized a system of distributing stations, usually drug stores, where a doctor may obtain the materials necessary for making a diagnosis, and is trying by means of research work to enlarge our knowledge of various infections, diseases, and their causes. For instance, investigations on the morphology of the diphtheria bacilli have been made, and numerous other studies which, though not directly practical, serve to keep the work of the board from falling into the rut of established custom.

As to the requirements for success in scientific and engineering work, Mr. Richards said that he believed executive ability, personal honesty, tact, and judgment in the use of time to be essential. Besides these qualities he also mentioned enthusiasm, particularly in laboratory work, as highly desirable and valuable to the biologist and sanitary engineer.

At the close of Mr. Richards' address Professors Sedgwick and Prescott read letters from McNutt and Wells, former members of the biological society, who are now engaged in health work, and then all present adjourned to the basement to enjoy an hour's sport on the bowling alleys.

Tomorrow afternoon, at 3 o'clock, 25 members of the chess club will meet A. S. Sussman, the New England chess champion in simultaneous play.

FACULTY NOTICES

The attention of students is called to the first conference of the governors of the New England states, to be held at Tremont Theatre, November 23 and 24. This conference is for consideration of the various aspects of the conservation of resources, and the foremost authorities in the country are to speak. Governor Guild has sent a special invitation to the students and instructing staff of the Institute, and it is hoped that many will find opportunity to attend at least one of the sessions. There is no charge for admission.

1912 DISTANCE RUN

Will be Held Over Tech Course Tomorrow Afternoon

Freshman cross-country enthusiasts are getting into shape to give the sophomores a good rub in the annual dual class race. A good number turned out for the hare and hound run last Saturday. It is being generally realized that the best way to keep in shape for distance running is by attending the hare and hound runs. The run this week is a direct preparation for the handicap cross-country race to be held Nov. 23, and will be over the course on which the race is to be run. This will be an easy jog and all the men will run in one squad, so as to study the course and to lay trail on it. F. H. Hunter 1902, who laid out the course, will run with the men. Train leaves Back Bay station at 2:22 P. M. Round trip fare is 25 cents. B. Huber 1910, will have charge of the run.

Coach Kanaly wants to have at least as good, and if possible a better cross-country team next year than this year's team has proven to be. This will only be possible if a large number of men come out for the work now. The handicap race is especially for the new men, and they will receive sufficiently large handicaps to make it almost certain that a new man will pull first prize. The limit is time enough to insure about a mile start on the scratch man. Three prizes are given and the four men making the best times get their "cTe". Every one who has been out on the hare and hound runs will be in shape for this race and should not miss this chance of getting an Institute medal or his cross-country insignia.

FIRE LAWS DISCUSSED

Graduate Addresses Architects On Construction

Last evening the Architectural Society was addressed by Mr. Everett 1877, of the Boston Building Commission on building law. Mr. Everett regards building laws as necessary to prevent encroachment on neighbor's rights and to ensure safety of the occupants of buildings. He brought out several interesting points in regard to theatre construction. The stage of the average theatre will act as a large fireplace if it is not separated from the auditorium by a fire wall. An asbestos fire curtain will last only five or six minutes in an ordinary fire, but the average theatre can be emptied in three minutes, barring panic. The only danger point is the upper gallery, for the upper part of the auditorium soon becomes filled with smoke. The speaker said the new Boston theatre was an example of good construction in that it not only complied with the letter of the law, but with the spirit also. A further point is that in a tenement house fire the common way of escape up-stairs and onto the roof is the most disastrous scheme that could be tried, because the most dense smoke collects at the top of the stairway and, soon after opening the shutter at the top, the stairway becomes a blast furnace.

At the close of the talk Mr. Everett answered questions of general interest, stating that the leaning tower of the Old South Church, had found its bearings and is now safe. Mention was made of the house at 50 Batavia street, which is slowly sinking into the ground. The speaker refused to go into detail with regard to structure, because of a certain fear of Prof. Swain.

At the close of the discussion Sharman 1909, and Bachelder 1909, entertained the society with music, after which refreshments in the form of a Dutch supper were served.

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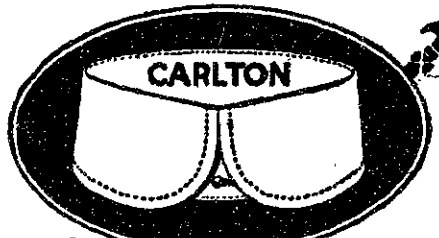
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EUROPEAN AND

AMERICAN

PLANS

CROSS COUNTRY

(Continued from page 1.)

run over the course. Mills, McCarthy, Ellis and Howland are wearers of the "T," and Jacobs, Eldred and Stephenson will make a desperate effort to win the insignia in the race tomorrow. To do this it will be necessary to finish among the first fifteen.

An account of the performances of the members of the team may be of interest. H. H. Howland 1908, has scored more points than any one else. Some of the places won by him are: fall meet, 1906, third in the mile; race with Harvard, 1906, first place, making new record; I. C. C. A., at Princeton, 1906, 14th place; indoor meet, 1907, 1st place in mile; spring meet, 1907, 2nd in mile; Maine meet, 1907, placed in 1 mile and 3 mile; captain of cross-country team, 1907; I. C. C. A., at Princeton, 1907, 31st place; fall meet, 1908, 2nd in 2 mile race; dual meet with Harvard, 2nd place; member of track team for three years.

The places won by R. Ellis are: Fall meet, 1906, 3rd in 2 mile; cross-country handicap, 1906, 5th place; spring meet, 1907, 2nd in 2 mile; dual meet with Harvard, 1907, 5th place; I. C. C. A., at Princeton, 1907, 24th place; cross-country handicap, 1907, 5th place; captain of the cross-country team, 1908; member of the track team for two years.

J. N. Stephenson 1909, won the following places:—Cross-country handicap, 1906, 1st place; I. C. C. A., at Princeton, 1907, 25th place; cross-country handicap, 1907, best time and 3rd place; fall meet, 1908, 4th place in 2 mile team race; dual race with Harvard, 1908, 10th place; chase captain of hare and hounds, 1907 and 1908; member of 1908 track team.

J. F. McCarthy 1909, has the following record:—Fall meet, 1908, 1st place in 2 mile team race; dual meet with Harvard, 1908, 5th place; member of 1908 track team.

Some of the work of L. O. Mills 1910, is as follows:—Fall meet, 1906, 3rd in 440-yard dash; spring meet, 1907, 3rd in 1 mile; indoor meet, 1908, 1st in mile; freshman-sophomore race, 1908, 2nd place; dual meet with Harvard, 1908, 4th place.

Elmer Jacobs 1910, did not come out till late last spring. He placed 6th in the freshman-sophomore race, 1908; fall meet, 1908, 5th in 2 mile team race; Harvard race, 1908, 6th place.

C. P. Eldred made a good record during his freshman year. He got in the C. C. handicap race, 1907, 2nd place; fall meet, 1907, 4th in mile; indoor meet, 1908, 3rd in mile; freshman-sophomore race, 3rd place; Harvard race, 1908, 8th place; member of 1908 track team.

M. E. SOCIETY DINES

W. Lindgren Talks on California—
Prof. Richards Given L.L.D.

W. Lindgren, of the U. S. Geological Survey, was the principal speaker at the Mining Engineering Society dinner held at the Union last night. He briefly described the gold quartz veins in upper and lower California.

Prof. Richard surprised everyone by announcing that he had the degree of Doctor of Laws conferred on him by the University of Missouri last June, and that he intended leaving to the Institute two silver pieces, a loving cup and a salad bowl, that had been given him by his classes. He briefly described his trip West last summer, his new book, and his work on improvements in mining machinery.

Prof. Warren, "earned his passage," as he put it, by keeping the assembly in a continual uproar with anecdotes of former professors, in particular, Profs. Dana and Brewer. The meeting ended with a short talk by Prof. Jagger on the coming geological expedition under the Russian government to the Aleutian Islands, saying that this field offered great opportunity to the graduate for study.

GOVERNORS TO MEET

The First Conference for uniform legislation for New England will be held at the Tremont Theatre, Boston, on the afternoon of November 23, and in the morning and afternoon of November 24. Except the few seats reserved for the official delegates, the entire theatre will be thrown open to the public, with free admission.

The morning session of November 24 will be entirely devoted to the cultivation of shell-fish. The third session at 2 o'clock in the afternoon, will be devoted to highways. Ex-Governor Nahum J. Bacheelder of New Hampshire will speak on the control of automobiles. All Institute men are especially invited to attend. No tickets will be necessary.

TECH SHOW DINNER—Tickets for the Tech Show Dinner can now be obtained from Joslin Sittinger, Goodwin, and Clapp; also after 1 P. M., today at the Bursar's office.

Beginning Monday, Nov. 23, there will be short runs starting from the gym on Garrison street at 5:15 P. M. These runs will take place on Monday and Thursday and are preparatory to indoor relay work. The pace of the squads will be set by the slowest man so the work will be light.

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The Review aims to develop closer relations among Institute men and to stimulate their interest in the work of the College. It is in no sense an engineering magazine, but deals broadly with the problems of Technological Education and the responsibilities of the professional man.

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NOTICES

BASKETBALL—Practice at Gym to-day at 5:30 P. M.

M. E. SOCIETY EXCURSION—To Charlestown Navy Yard, leaving 24. B. at 2 P. M., Saturday, Nov. 21.

SUBWAY TRIP OFF—The Civil Engineering Society excursion, scheduled for today, will not be made.

On and after Sunday, Nov. 22, dinner will be served in the Union from 1 to 2 P. M.

CLASS BASKETBALL—All candidates for the class teams should leave names at the cage.

1911 BASKETBALL—A meeting of all the candidates for the sophomore basketball team will be held Wednesday at 1 P. M., in 27 Rogers.

1912 BASKETBALL—The first meeting of candidates for the freshman basketball team will be held next Monday at 1 P. M., in 27 Rogers.

CHESS CLUB—The tournament with Mr. Sussman will start at 3 P. M., Saturday, instead of in the evening as announced.

ALL MEN—Interested in the formation of a varsity baseball team leave their names at cage for W. J. Kelly 1909.

1912—All cross-country men report Saturday for the hare and hound run over handicap course. Train leaves Back Bay station at 2:22 P. M.

SUNDAY EVENING MEETING—The speaker this week at the regular Sunday evening meetings of the Y. M. C. A., will be Rober B. Hull, Yale 1907. He is now a student in the Harvard Law School

FACULTY NOTICE

COURSES II AND XIII—Prepare for first exercise Thermometry, Part 1. Laboratory. Notes on Heat.

HEAT AND VENTILATION; 4TH YEAR—Will meet in 20 Eng B, on Saturday, 12 to 1, instead of 22 Walker.

SECOND YEAR PHYSICS—Will meet in 22 Walker on Tuesday, Thursday, and Saturday at 11 to 12, instead of 23 Walker.

SECOND, THIRD AND FOURTH YEAR—Metallurgy of iron will meet in future in Walker, 23, at 9-10 on Saturday, instead of 22 Walker.

CONVERSATIONAL TALKS IN GERMAN—Dr. Schumacher omitted his talk on Political Parties in Germany, announced for last Tuesday, the 17th inst. He will give it next Tuesday, the 24th inst., in Room 24, Lowell, in which room his talks will be given hereafter.

CLASSIFIED ADS

Advertisements under this head are inserted at the rate of five cents a line of six words, payable in advance, and copy should be handed to the business manager the morning before publication day.

Will the person who took the I. O. F. pin from a freshman on the night of sophomore dinner please return it care of The Tech, 30 Eng C.

LOST—Gold watch fob initialed P. D. W., in 31 Eng A; 10-11 Wednesday. Please return to P. D. W., the cage.

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